

WHAT IS CLAIMED IS:

1. An image processing system, comprising:

image input means for inputting photographing images;

5 first arrangement means for arranging plural images of optional sizes input by said image input means within an output area of a definite size;

10 second arrangement means for deleting predetermined areas of the images to be arranged on the basis of an arrangement result obtained by said first arrangement means and arranges the images again within said output area; and

15 image arrangement means for determining an arrangement of said images within said output area and executing said arrangement on the basis of an arrangement result obtained by said first arrangement means and an arrangement result obtained by said second arrangement means.

20 2. A system according to Claim 1, wherein said second arrangement means deletes a predetermined area of a runover image by a quantity determined on the basis of a width of the runover image when an image runs over said output area as a result of an image arrangement by said first arrangement means.

25 3. A system according to Claim 1, wherein said

second arrangement means deletes a predetermined area of a runover image by a quantity determined on the basis of a width of an arrangement area for the runover image when an image runs over said output area as a 5 result of an arrangement by said first arrangement means.

4. A system according to Claim 1, further comprising area direction setting means for setting a 10 direction of said output area,

wherein said first arrangement means comprises: means for arranging said images in said output area in a first direction set by said area direction setting means; and

15 means for arranging said images in said output area in a second direction different from said first direction.

5. A system according to Claim 4, wherein said 20 first arrangement means arranges a runover image in said second direction when an image runs over said output area as a result of arrangement of said images in said output area in said first direction.

25 6. A system according to Claim 1, wherein said second arrangement means acquires a runover quantity when an image runs over said output area as a result of

the arrangement by said first arrangement means, and  
said image arrangement means determines an  
arrangement of said runover image in said output area  
on the basis of said runover quantity.

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7. A system according to Claim 1, further  
comprising area direction setting means for setting a  
direction of said output area,

wherein said first arrangement means comprises:

10 means for arranging said images within said output  
area in a first direction set by said area direction  
setting means; and

means for arranging said images within said output  
area in a second direction different from said first  
15 direction,

wherein said second arrangement means comprises:

means for acquiring a first runover quantity in an  
arrangement in said first direction when an image runs  
over said output area as a result of an arrangement by  
20 said first arrangement means; and

means for acquiring a second runover quantity in  
an arrangement in said second direction, and

25 said image arrangement means determines an  
arrangement of said runover image in said output area  
on the basis of said first runover quantity and said  
second runover quantity.

8. A system according to Claim 7, further comprising image adding means for consecutively adding images to be arranged,

5 wherein said first arrangement means arranges said images once again excluding a finally added image when said first runover quantity or said second runover quantity exceeds a predetermined quantity.

9. A system according to Claim 1, wherein said 10 image input means inputs photographed radiation images.

10. A control method of an image processing system for processing photographing images, comprising steps of:

15 inputting photographing images;  
arranging plural input images of optional sizes in an output area of a definite size;  
deleting predetermined areas of images to be arranged on the basis of an arrangement result at said 20 first arranging step and arranging the images within said output area once again; and  
determining an arrangement of said images in said output area on the basis of an arrangement result at said first arranging step and said second arranging 25 step.

11. A control method according to Claim 10,

wherein a predetermined area of a runover image is deleted by a quantity determined at said second arranging step on the basis of a width of the runover image when an image runs over said output area as a 5 result of an arrangement at said first arranging step.

12. A control method according to Claim 10, wherein a predetermined area of a runover image is deleted by a quantity determined at said second arranging step on the basis of a width of an 10 arrangement area when an image runs over said output area as a result of an arrangement at said first arranging step.

15 13. A control method according to Claim 10, further comprising an area direction setting step of setting a direction of said output area, wherein said images are arranged in said output area in a first direction set at said area direction 20 setting step and in a second direction different from said first direction.

14. A control method according to Claim 13, wherein a runover image is arranged in said output area 25 in said second direction at said first arranging step when an image runs over said output area as a result of arranging said images in said output area in said first

direction.

15. A control method according to Claim 10,  
wherein a runover quantity is acquired at said second  
5 arranging step when an image runs over said output area  
as a result of an arrangement at said first arranging  
step, and

an arrangement of said runover image in said  
output area is determined at said executing step on the  
10 basis of said runover quantity.

16. A control method according to Claim 10,  
further comprising an area direction setting step of  
setting a direction of said output area,  
15 wherein said images are arranged in said output  
area at said first arranging step in a first direction  
set at said area direction setting step and said images  
are further arranged in said output area in a second  
direction different from said first direction,

20 a first runover quantity in a disposition in said  
first direction and a second runover quantity in said  
second direction are acquired at said second arranging  
step when an image runs over said output area as a  
result of an arrangement at said first arranging step,  
25 and

an arrangement of said runover image in said  
output area is determined at said executing step on the

basis of said first runover quantity and said second runover quantity.

17. A control method according to Claim 16,  
5 further comprising an image addition step of  
consecutively adding images to be processed,  
wherein said images are arranged once again with a  
finally added image excluded at said first arranging  
step when either of said first runover quantity or said  
10 second runover quantity exceeds a predetermined  
quantity.

18. A control method according to Claim 10,  
wherein photographed radiation images are input at said  
15 image input step.

19. A memory medium storing a program readable by  
a computer for allowing an image processing system for  
processing photographing images to execute following  
20 steps,

wherein said program comprises:  
inputting photographing images;  
arranging plural input images of optional sizes in  
an output area of a definite size;  
25 deleting predetermined area of the images to be  
arranged on the basis of an arrangement result at said  
first arranging step and arranging said images in said

output area once again; and

determining an arrangement of said images in said output area on the basis of an arrangement result at said first arranging step and an arrangement at said 5 second arranging step, and executing said arrangement.

20. An image arranging method for consecutively arranging plural images of optional sizes from a left upside to a right downside in an output area of a definite size so that the images are arranged in bands 10 in a line or row direction in said output area, comprising:

a first arranging step of arranging said plural images in said output area;

15 a second arranging step of arranging said plural images once again in said output area so that marginal portions of some or all of said plural images are deleted by narrowing widths of said bands at ratios proportional to widths of said bands when said plural images can not be arranged in said output area in a vertical direction and narrowing widths of images 20 existing in a band wherein an image which can not be arranged in a horizontal direction of said output area exists at ratios proportional to the widths of the images when said plural images can not be arranged in 25 said output area in a horizontal direction, and

an image arranging step of determining an

arrangement of said plural images on the basis of arrangement results at said first arranging step and said second arranging step.

5           21. An image arranging method according to Claim 20, further comprising an area direction setting step of setting direction information of said output area,

10          wherein said first arranging step comprises a step of performing an arrangement of said images once again in a second direction different from a first direction set at said area direction setting step when a given image runs over said output area in an arrangement in said first direction, and

15          wherein said second arranging step comprises a step of arranging said plural images once again when a given image runs over said output area in an arrangement at said first arranging step.

22. An image arranging method according to Claim 20, wherein said first arranging step comprises:

20          a step of arranging the images in a first direction set at said area direction setting step; and  
              a step of arranging the images in a second direction different from said first direction,

25          wherein said second arranging step comprises a step of acquiring a first runover quantity which is produced when said plural images can not be arranged in

said output area in said first direction and a step of acquiring a second runover quantity when said plural images can not be arranged in said output area in said second direction, and

5       wherein said image arranging step comprises a step of determining an image arrangement in a direction corresponding to a runover quantity whichever is smaller.

10       23. An image arranging method according to Claim 22, further comprising a step of consecutively adding images to be processed,

15       wherein said image arranging step comprises a step of excluding an image finally added at said image adding step when the first runover quantity or said second runover quantity whichever is smaller exceeds a definite ratio of said output area for the first time.

20       24. An image arranging method according to Claim 20, further comprising a step of reducing said plural images to an image.

25       25. An image arranging method according to Claim 20, further comprising a step of arranging said bands uniformly in said output area.

26. An image arranging method according to Claim

20, further comprising a step of arranging said images uniformly in said bands.